7. References

Adams, K. and T. Minor (2000) *Lake Tahoe Shoreline Erosion: Sediment and Nutrient Loading*, report prepared by the Desert Research Institute for the Tahoe Regional Planning Agency.

Air Resources Board (1997a) Toxic Air Contaminant Identification, List Summaries – *Phosphorus*, ARB/SSD/SES, September.

Air Resources Board (1997b) *Background materials 1997-11-12 Diesel Exhaust as a Federal Hazardous Air Pollutant*. Table 1, page 380.

Air Resources Board (2002) Air Toxic Ambient Monitoring Network, *ADAM Data Summaries*, http://www.arb.ca.gov/adam/toxics/sitelists/psites.html.

Air Resources Board (2003), *California Ambient Air Quality Data 1980-2001*, [CD-ROM PTSD-02-017-CD], http://www.arb.ca.gov/aqd/aqdcd/aqdcd.htm, ARB Planning and Technical Support Div., Sacramento, CA, December.

Air Resources Board (2003), *The 2003 California Almanac of Emissions & Air Quality*, Cal/EPA ARB, Revised April 2003.

Andronache, C,C. Kiang, W.D. Chameides, D. Davis, B. Anderson, R. Pueschel, A. Bandy, D. Thornton, R. Talbot, P. Kasibhatla (1997) Gas-to-particle conversion of tropospheric sulfur as estimated from observations in the western North Pacific during PEM-West B. *J. Geophys. Res.*, **102**(D23), 28511-28538.

Asman, W.A.H., B.R. Taeke, H.F.R. Reijnders, J. Slanina (1982) Influence and prevention of bird-dropping in precipitation chemistry experiments. *Water, Air and Soil Pollution*, **17**, 415-420.

Austin, J., and S. Gouze.(2001) *Ozone Transport: 2001 Review*, CARB Planning and Technical Support Div., Sacramento, CA, April.

Brook, J. R., L. M. Zhang, F. Di-Giovanni and J. Padro (1999) Description and evaluation of a model of dry deposition velocities for routine estimates of air pollutant dry deposition over North America, Part I: model development. *Atmospheric Environment*, **33**: 5037-5051.

Brooks, J.R., F. Di-Giovanni, S. Cakmak, T.P. Meyers (1997) Estimation of dry deposition velocity using inferential models and site-specific meteorology – Uncertainty due to siting of meteorological towers. *Atmospheric Environment*, **31**, 3911-3919.

Brutsaert, W. (1982) Evaporation into the Atmosphere, Reidel Publishing Co.

Byun, D. W., and R.L. Dennis, 1995: Design artifacts in Eulerian air quality models: Evaluation of the effects of layer thickness and vertical profile correction on surface ozone concentrations. *Atmospheric Environment*, **29**:1, 105-126.

Cadle, S., P. Mulawa, E. Hunsanger, K. Nelson, R. Rafazzi, R. Barrett, G. Gallagher, D. Lawson, K. Knapp, R. Snow (1999) Light-duty motor vehicle exhaust particulate matter measurement in the Denver, Colorado, area. *J. Air & Waste Manage. Assoc.* **49**:PM-164-174.

Caffrey, P.F., J.M. Ondov, M.J. Zufall, C.I. Davidson (1998) Determination of size-dependent dry particle deposition velocities with multiple intrinsic elemental tracers. *Env. Science & Technology*, **32**, 1615-1622.

Cahill, T.A. and P. Wakabayashi (1993) Compositional Analysis of Size-segregated Aerosol Samples, Chapter 7 in *Measurement Challenges in Atmospheric Chemistry*. Leonard Newman, ed., American Chemical Soc., 211-228.

Cao H., Liu, J-A, Y. Zhuang, and D. Glindemann (2000) Emission sources of atmospheric phosphine and simulation of phosphine formation. *Science in China (Series B)*, **43**:2, 162-168.

Carroll, J.J., Anastasio, C., and Dixon, A.J. (2003), *Keeping Tahoe Blue through Ambient Air Quality Modeling: Aircraft and Boat Measurements of Air Quality and Meteorology Over Lake Tahoe*. Report prepared by University of California Davis for the Air Resources Board, Interagency Agreement #01-326, December.

Charnock, H., (1955) Wind stresses on a water surface, *Quarterly Journal of the Royal Meteorological Society*, **81**:639-640.

Chow, J., Watson, J.G., Lownthal, D.H., Pritchett, L.C., and Richards, W.L. (1990), *San Joaquin Valley Air Quality Study, Phase II: PM_{10} Modeling and Analysis, Volume I: Receptor Modeling Source Apportionment.* Desert Research Institute Document No. 8929.1F, JPA Contract #88-1, Final Report prepared for the San Joaquin Valley Air Pollution Study Agency (October 11).

Clark, J.F., E.S. Edgerton, B.D. Martin (1997) Dry deposition calculations for the Clean Air Status and Trends Network. *Atmospheric Environment*, **31**, 3667-3678.

Cliff, Steven, *personal communication*, 2004.

Coburn, T. (1998) Statistical Analysis of Particulate Matter Emissions from Light-Duty and Heavy-Duty Diesel Vehicles, final report for The Northern Front Range Air Quality Study, U.S. Department of Energy, National Renewable Energy Laboratory.

Cohen, R. and Murphy, J. (2004), Chemistry and Transport of Nitrogen Oxides on the Western Slopes of the Sierra Nevada Mountains: Implications for Lake Tahoe. Prepared by University of California Berkeley for Air Resources Board, July.

Core, J.E., *et al.* (1989) Receptor Modeling Source Profile Development for the Pacific Northwest States; The Pacific Northwest Source Profile Library, Volume 2 - Project Final Report. State of Oregon Department of Environmental Quality, Portland, Oregon, September.

Elford, C.R. (1974) The Climate of California. in *Climates of the States,* van der Leeden, F. and F.L. Troise (eds.), Water Information Center, Port Washington, NY, 538-594.

Fitz, D. and J. Lents, (2003) *Improvement of the PM Emission Inventory for the Lake Tahoe Region.* Final Report prepared by College of Engineering, Center for Environmental Research and Technology (CE-CERT) for Air Resources Board, (September 19).

Fitzgerald, J.W. (1975) Approximate formulas for the equilibrium size of an aerosol particle as a function of its dry size and composition and the ambient relative humidity. *J. Applied Meteorology*, **14**, 1044-1049.

Frank, R. and G. Rippen (1987) Verhalten von phosphin in der atmosphäre. [Fate of phosphine in the atmosphere]. *Lebensmitteltechnik*, July/August, 409-411.

Garrat, J. R., 1977: Review of drag coefficients over oceans and continents. *Mon. Weather Rev*. **105**, 915-929.

Geernaert, G.L, Editor (1999) Air-Sea Exchange: Physics, Chemistry, and Dynamics. Klewer Academic Publishers, Boston.

Gertler, A.W., Harrington, R.F., Tanner, R.L., Chow, J.C., Lu, Z., Watson, J.G., Henry, R.C., and Grosjean, D. (1993), *Receptor Modeling of Transport of Acidic Air Pollutants and Oxidants to Forested Regions in the Sierra Nevada*, Final Report to Air Resources Board Contract No. A932-140 (December).

Hann, S.R., L.L. Schulman, R.J. Paine, J.E. Pleim, and M. Baer, 1985: Development and evaluation of the Offshore and Coastal Dispersion Model. *JAPCA*, **35**, 1039-1047.

Hicks, B.B., D.D. Baldocchi, T.P. Meyers, R.P. Hosker Jr., D.R. Matt (1987) A preliminary multiple resistance routine for deriving dry deposition velocities from measured quantities. *Water, Air, and Soil Pollution*, **36**, 311-330.

Hicks, B.B. and P.S. Liss (1976) Transfer of SO_2 and other reactive gases across the air-sea interface. *Tellus*, **4**, 348-354.

Holsen M.H., K.E. Noll, G. Fang, W. Lee, J. Lin, G.J. Keeler (1993) Dry deposition and particle size distributions measured during the Lake Michigan Urban Air Toxics Study. *Env. Science & Technology*, **27**:7, 1327-1333.

Hosker, R.P., 1974: A comparison of estimation procedures for overwater plume dispersion. *Proceedings, Symposium on Atmospheric Diffusion and Air Pollution. American Meteorological Society*, Boston, MA.

Hughes, L.S., Allen, J.O., Salmon, L.G., Mayo, P. R., Johnson R. J., and Cass, G. R. (2002) Evolution of nitrogen species air pollutants along trajectories crossing the Los Angeles area, *Environ. Sci. Technol.*, 36:3928-3935,

Jassby, A.D., J.E. Reuter, R.P. Axler, C.R. Goldman, and S.H. Hackley (1994) Atmospheric deposition of nitrogen and phosphorus in the annual nutrient load of Lake Tahoe, *Water Resources Research*, **30**:7, 2207-2216, July.

Kleeman, M.J. and G. Cass (1999) Effect of emission control strategies on the size and composition distribution of urban particulate air pollution. *Env. Science & Technology*, **33**, 177-189.

Kaleli, H. (2003), Engine emissions and poisoning effect of synthetic oil's additives on catalytic converter using an engine dynamometer*. Industrial Lubrication and Tribology*, **55**: 4, 162-177(16), July 2nd.

Koracin, J.K., L.W. Tarnay, A.W. Gertler (2003) An estimate of the sources of atmospheric nitrogen deposition in the Lake Tahoe Basin. Submitted to *Atmospheric Environment*.

Kuhns, H., J. Chow, V. Etyemezian, D. Trimble, S. Kohl, M. McClaren, M. Abu-Aliban, J. Gillies, and A. Gertler (2004) *DRI Lake Tahoe Source Characterization Study*, Draft Final Report prepared by Desert Research Institute for Air Resources Board.

Larsen, S.E. (1995) Dry Deposition of particles to ocean surfaces. *Ophelia*, **42**, 193-204.

Liu, J-A, H. Cao, Y. Zhuang, P. Kuschk, F. Eismann, D. Glindemann (1999), Phosphine in the urban air of Beijing and its possible sources. *Water, Air, and Soil Pollution*, **116**, 597-604.

Lu, R., R.P. Turco, K.D. Stolzenbach, S.K. Freidlander, C. Xiong, K. Schiff, L.L. Tiefenthaler and G. Wang (2003). Dry deposition of airborne trace metals on the Los Angeles Basin and adjacent coastal waters. *Journal of Geophysical Research*, **108**: 4074.

Malm, W., J. Sisler, D. Huffman, R. Eldred, and T. Cahill (1994) Spatial and seasonal trends in particle concentration and optical extinction in the United States. *J. Geophys. Res.* **99**(D), 1347-1370.

McQueen, J.T., R.A. Valigura, and B.J.B. Stunder (1997) Evaluation of the Regional Atmospheric Modelling System for estimating nitric acid pollution deposition onto the Chesapeake Bay. *Atmos. Environ.,* **31**, 3803-3819.

Merlivat, L. (1978) Dependence of bulk evaporative coefficients on air-water interfacial conditions as determined by the isotopic method. *Journal of Geophysical Research*, **83**, 2977-2980.

Merlivat, L. and M. Coantic (1975) Study of mass transfer at the air-water interface by an isotopic method. *Journal of Geophysical Research*, **80**, 3455-3464.

Mitchell, David (after 1987) The dependence of chemical wet deposition on wind direction in the Lake Tahoe Basin. Unpublished manuscript.

Murphy, D.D. and C.M. Knopp (2000), editors, *The Lake Tahoe Watershed Assessment*, report prepared for the USDA Forest Service.

Nevada Division of Environmental Protection (NDEP) Air Quality Data (http://ndep.nv.gov/baqp/trend01.htm), 2003.

Nicholson K.W., (1988) The dry deposition of small particles: A review of experimental measurements. *Atmospheric Environment*, **22**:12, 2653-2666.

Ondov, J.M. and C.B. Kidwell (2000) Report to TBEP, St. Petersburg, FL, June.

Pilegaard, K, N.O. Jenensen , P. Hummelshoj (1995) Deposition of nitrogen oxides and ozone to Danish forest sites. in Acid Rain Research: Do we have Enough Answers?, Heij, G.J. and Erisman, J.W. (eds.), Elsevier, Amsterdam, pp. 31-319. (as referenced in Pryor 2002)

Platinum (2004), *30 Years in Development of Autocatalysts*, special report in *Platinum 2004*, pp. 32-37, published by Johnson Matthy Public Limited Company, London.

Pollisar, A.V., P.K. Hopke, W.C. Malm, and J.F. Sisler (1996) The Ratio of Aerosol Absorption Coefficients to Sulfur Concentrations as an Indicator of Smoke from Forest Fires when Sampling in Polar Regions, Atmos. Env. **30**,1147-1157.

Pryor, S.C., R.J. Barthelemie, L.L.S. Greernaert, T. Ellermann, K.D. Perry (1999) Speciated particle dry deposition to the sea surface: results from the ASEPS '97. Atmos. Env., **33**, 2045-2058.

Pryor, S.C. and L.L. Sorensen (1999) Nitric acid-sea salt reactions: Implications for nitrogen deposition to water surfaces in Notes and Correspondence, *J. Applied Meteorology*, **39**, 725-731.

Pryor, S,C. and R.J. Barthelemie (2000) Particle dry deposition to water surfaces: Processes and consequences. *Marine Pollution Bulletin*, **41**, 220-231.

Pryor, S.C. and L.L. Sorensen (2002) Dry deposition of reactive nitrogen to marine environments: Recent advances and remaining uncertainties. *Marine Pollution Bulletin*, **44**, 1177-1181.

Quinn, T.L., and J.M. Ondov, (1998) Influence of temporal changes in relative humidity on dry deposition velocities and fluxes of aerosol particles bearing trace elements. *Atmospheric Environment*, **32**, 3467-3479.

Reuter, J.E., A.D., Jassby, C.R., Goldman, and A.C. Heyvaert (2004) *Contribution of Basin Watersheds and Atmospheric Deposition to Eutrophication at Lake Tahoe*, Tahoe Research Group, UC Davis.

Reuter, J.E., T. Cahill, S.H. Hackley, L.W. Tarnay (2004) Review of Published/Existing Rates of Atmospheric Deposition of Nitrogen, Phosphorus, and Fine Particles Directly to Surface Water of Lake Tahoe, CA-NV: Part I. Nitrogen (May 22) & Part II Phosphorus (July 9), Tahoe Research Group and DELTA Group, University of California, Davis.

Scire, J.S., F.R. Robe, M.E. Fernau, R.J. Yamartino (2000a) A User's Guide for the CALMET Meteorological Model, Earth Tech, Inc. Concord, MA.

Scire, J.S., D.G. Strimaitis, R.J. Yamartino (2000b) A User's Guide for the CALPUFF Dispersion Model, Earth Tech, Inc. Concord, MA.

Seinfeld, J.H. (1986) *Atmospheric Chemistry and Physics of Air Pollution,* 738 p., J. Wiley & Sons, New York.

Seinfeld, J.H. and S.N. Pandis (1998) *Atmospheric Chemistry and Physics: From Air Pollution to Climate Change*, John Wiley and Sons, Inc., New York.

Shepard, M. (2003) Perspective for Managing PM, Chapter 1 in *Particulate Matter Science for Policy Makers: A NARSTO Assessment, Part 2*. http://www.cgenv.com/Narsto/, February.

Sisler, *et al.*, (1996) *Spatial And Seasonal Patterns And Long Term Variability Of The Composition Of The Haze In The United States: An Analysis Of Data From The IMPROVE Network*, Cooperative Institute for Research in the Atmosphere (CIRA), Colorado State University, Fort Collins, CO, ISSN: 0737-5352-32.

Slinn, S.A. and W.G.N. Slinn (1980) Predictions for particle deposition on natural waters. *Atmospheric Environment* **14**(9): 1013-16.

Smith, R.I., D. Fowler, M.A. Sutton, C. Flechard and M. Coyle (2000) Regional estimation of pollutant gas dry deposition in the UK: model description, sensitivity analysis, and outputs. *Atmospheric Environment* **34**: 3757-3777.

Sorensen, L.L., O. Hertel, C. Skjoeth, M. Lund, B. Pedersen (2002a) Fluxes of ammonia in the coastal marine boundary layer. *Atmospheric Environment*, in review. (as referenced in Pryor, 2002).

Sorensen, L.L. Pryror, S.C., Sempreviva, A. Spokes, L. (2002) *Transport and Chemical Transformation in the Troposphere*, EUROTRAC-2 Symposium 2002 Gramisch-Partenkirchen, 4 p., in press, (as referenced in Pryor 2002).

Stelson, A.W. and Seinfld, J.H. (1982) Relative Humidity and Temperature Dependence of the Ammonium Nitrate Dissociation Constant, *Atmospheric Environment*, **16**, 983.

Sun, J., D. Lenschow, L., Mahrt, T. Crawford, K.J. Davis, S.P. Oncley, J.I. MacPherson, Q. Wang, R.J. Dobosy, and R.L. Desjardins, (1997) Lake-induced atmospheric circulations during BOREAS. *J. of Geophysical Res.*, **102**:D24, 29155,-29166.

Sun, Jeilun, D. Vademark, L. Mahrt, D. Vickers, T. Crawford, C. Vogel (2001) Momentum transfer over the coastal zone. *J. Geophysical Res.*, **106**:D12, 12437-12488.

Tarnay, L., A.W. Gertler, R.R. Blank, G.E. Taylor Jr. (2001) Preliminary measurements of summer nitric acid and ammonia concentrations in the Lake Tahoe Basin air-shed: implications for dry deposition of atmospheric nitrogen. *Environmental Pollution*, **113**, 145-153.

Tarnay, L., M. Luria, A. Gertler (2003) Sources of nitrogen deposition in the Lake Tahoe Basin, California – Nevada. In preparation.

Tarnay, L., Luria, M., and Gertler, A.W. (submitted in 2002), *Sources of Nitrogen Deposition in the Lake Tahoe Basin, California Nevada*.

Tarnay, L., Johnson, D.W., and Gertler, A.W. (submitted in 2003). *The impact of local air pollutants on Lake Tahoe's nitrogen budget: II. Elevated growing season N deposition in a semi-arid, N-Limited Western watershed.*

Valigura, R.A. (1995) Iterative bulk exchange model for estimating air-water transfer of HNO_3. *J. Geophysical Res.*, **100**:D12, 26045-26050.

VanCuren, R. (2003) Asian aerosols in North America: Extracting the chemical composition and mass concentration of the Asian continental aerosol plume from long term aerosol records in the western United States, *J. Geophys. Res.*, 2003JD003459, in press.

VanCuren, R., and T. Cahill (2002), Asian aerosols in North America: Frequency and concentration of fine dust, *J. Geophys. Res.*, **107**:D24, doi:10.1029/2002JD002204, 28 December.

Walton, S., M.W. Gallagher, T.W. Choularton, J. Duyzer (1997) Ozone and NO_2 exchange to fruit orchards. *Atmospheric Environment*, **31**, 2767-2776 (as referenced in Pryor, 2002).

Wesely, M.L. and B.B. Hicks (2000) A review of the current status of knowledge on dry deposition. *Atmospheric Environment*, **34**, 2261-2282.

Whitacre, S.D., H.C. Tsai, and J. Orban (2000*) Lubricant Basestock and Additive Effects on Diesel Engine Emissions*, National Renewable Energy Laboratory.

Williams, R.M. (1982) A model for the dry deposition of particles to natural water surfaces. *Atmospheric Environment*, **16**, 1933-1938.

Yi, Seung-Muk, T.M. Holsen, K.E. Noll (1997) Comparison of dry deposition predicted from models and measured with a water surface sampler. *Env. Science & Technology*, **31**, 272-278.

Zhang, Q.I., Carroll, J.J., Dixon, A.J., and Anastasio, C. (2002). *Aircraft measurements of nitrogen and phosphorus in and around the Lake Tahoe Basin: implications for possible sources of atmospheric pollutants to Lake Tahoe.* Environmental Science and Technology Volume 36. pp. 4981-4989.

Zufall, M.J., M.H. Bergin, C.I. Davidson (1998) Effects of non-equilibrium hygroscopic growth of $(NH_4)_2SO_4$ on dry deposition to water surfaces. *Env. Science & Technology*, **32**, 584-590.

Zufall, M.J., C.I. Davidson, P.F. Caffey, and J.M. Ondov, (1998) Airborne concentrations and dry deposition fluxes of particulate species to surrogate surfaces deployed in southern Lake Michigan. *Environmental Sci. & Technology*, **32**, 1623-1628.